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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/039,018	12/31/2001	E. David Neufeld	H052617.1132US0 8143	
7590 02/05/2008 HEWLETT-PACKARD COMPANY INTELLECTUAL PROPERTY ADMINISTRATION			EXAMINER	
			LI, ZHUO H	
P.O. BOX 272400 FORT COLLINS, CO 80527-2400		ART UNIT	PAPER NUMBER	
			2185	
		4		
			MAIL DATE	DELIVERY MODE
			02/05/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/039,018	NEUFELD ET AL.			
		Examiner	Art Unit			
	·	Zhuo H. Li	2185			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE is not so time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  36(a). In no event, however, may a reply be tim  will apply and will expire SIX (6) MONTHS from  cause the application to become ABANDONE	.  the mailing date of this communication.  (35 U.S.C. § 133).			
Status						
2a)	Responsive to communication(s) filed on 1/18/2 This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowant closed in accordance with the practice under Ex	action is non-final. nce except for formal matters, pro				
Dispositi	on of Claims		•			
4) Claim(s) 1-19 and 28-31 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 1-19 and 28-31 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers					
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) access applicant may not request that any objection to the conference of the con	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	inder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2) D Notice 3) D Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te			

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## **DETAILED ACTION**

1. In view of the Decision on Appeal mailed on 1/18/2008, PROSECUTION IS HEREBY REOPENED under 37 CFR 1.198 for the purpose of entering the new rejection.

A TC Director has approved of reopening prosecution by signing below:

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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3. Claims 1-19 and 28-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Muthuswamy et al. (US PAT. 6,606,525 hereinafter Muthuswamy) in view of Lofgren et al. (US PAT. 6,230,233 hereinafter Lofgren).

Regarding claim 1, Muthuswamy disclose a method for merging static data and dynamic data downloaded to user computer from an interacted network site and storing the stat data and dynamic data in a local data store of the user computer (abstract) comprising the step of identifying whether a file, i.e., data (col. 3 lines 3-5) on a read/write storage medium (local cache 20, figure 1) is a static file, i.e., static data, or a dynamic file, i.e., dynamic data, (col. 3 lines 5-18). Muthuswamy differs from the claimed invention in not specifically teaching migrating the file to a dynamic region of the read/write storage medium if the file is a static file, and migrating the file to a static region of the read/write storage medium if the file is a dynamic file. However, Lofgren teaches a computer system comprising flash electrically erasable and programmable read only memory (11, figure 1), i.e., read/write storage medium, is divided into a plurality of memory banks for data storage (col. 3 lines 16-28 and col. 6 lines 23-55), which in respond to the memory operation from/to the micro-processor (17, figure 1) via the memory controller (13, figure 1), and the memory controller is further manages operation of the EEPROM memory in a way to maximize the lifetime of the memory system by avoiding uneven use of any one part of it (col. 3 lines 3-15). In addition, Lofgren teaches the EEPROM memory is further calculate the rewrite cycle of the each bank wherein the EEPROM memory is divided into most heavily used bank, i.e., dynamic region, and least used bank, i.e., static region, by the result of the calculation based on the rewrite/erase cycle, and data is transferred between the most heavily used and least used banks in the way of swapping the data in between of these banks (col. 4 line 46 through col.

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5 line 31 and figure 5). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the local store of Muthuswamy in having the steps of migrating the file to a dynamic region of the read/write storage medium if the file is a static file and migrating the file to a static region of the read/write storage medium if the file is a dynamic file, as per teaching by the storage system of Lofgren, because it allows for extending overall memory system lifetime without having to provide any replacement groups of the memory cells which maximize the lifetime of the memory system by avoiding uneven use of any one part of the memory system.

Regarding claim 2, Lofgren discloses the method of counting a number of rewrite cycles of the file via the cycle count field (73, figure 4) in header portion (col. 6 line 56 through col. 7 line 28).

Regarding claim 3, Lofgren discloses the method of comparing the number of rewrite cycles of the file to a predetermined rewrite cycle threshold (col. 5 lines 56-65).

Regarding claims 4-5, Lofgren discloses the predetermined rewrite cycle threshold is associated with a read/write storage medium identifier and a drive identifier for the read/write storage medium (col. 4 lines 1 1-31).

Regarding claim 6, Lofgren discloses the method wherein the predetermined rewrite cycle threshold is based on self-testing by performing rewrite cycles to a data block of the read/write storage medium until the data block is unstable (col. 4 lines 12-61 and col. 6 line 56 through col. 7 line 62).

Regarding claims 7-8, Lofgren discloses the method wherein the predetermined rewrite cycle threshold and the number of rewrite cycles of the file are stored in a file allocation table (co1. 4 lines 32-61).

Regarding claims 9-11, the difference between Lofgren and the claimed invention is the claims specifically recite the read/write storage medium comprises a compact disk read/write disk, a tape drive, a floppy disk drive. However, having this vary type of memory does not have a disclosed purpose nor is this kind of the memories disclosed to overcome any deficiencies in the prior art. As such, the read/write medium may have been of any kind of the memory. In addition, since Lofgren discloses the read/write medium is a flash electrically erasable and programmable read only memory (col. 1 lines 5-19 and col. 3 lines 5-28), the ordinary artisan would realize a possible kind of the memories can be applied as the current technology would warrant. Accordingly, it would have been an obvious matter of design choice to utilize the storage system of Lofgren wherein the read/write storage medium is a flash electrically erasable and programmable read only memory as disclosed supra, since applicant has not disclosed that a flash electrically erasable and programmable read only memory as opposed to other kind of memories, overcomes a deficiency in the prior art or is for any stated purpose.

Regarding claim 12, Lofgren discloses the method wherein the read/write storage medium comprises an electrically erasable medium, i.e., flash electrically erasable and programmable read only memory (col. 1 lines 5-19 and col. 3 lines 5-28).

Regarding claim 13, the limitations of the claim are rejected as the same reasons set forth in claim 1.

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Regarding claim 14, the limitations of the claim are rejected as the same reasons set forth in claim 2.

Regarding claim 15, the limitations of the claim are rejected as the same reasons set forth in claim 3.

Regarding claim 16, Muthuswamy discloses the file system comprising means for identifying a file type of the file, wherein the file is initially identified as static or dynamic based on the file type of the file (col. 3 lines 7-12, i.e., determining whether the data is dynamic data or not and marked with pointers as dynamic data if the data is dynamic data and marked with pointers as static data if the data is not dynamic data).

Regarding claim 17, Muthuswamy discloses a computer system comprising a processorexecutable file system (18, figure 1) adapted to identify whether a file on a read/write storage medium (20, figure 1) is a static file or a dynamic file (col. 2 lines 13-28 and col. 3 lines 3-18). Muthuswamy differs from the claimed invention in not specifically teaching the system comprising a processor-executable file system adapted to migrate the file to a dynamic region of the read/write storage medium, and migrating the file to a static region of the read/write storage medium. However, Lofgren teaches the computer system comprising a micro-processor (17, figure 1) to execute the memory access to the flash electrical erasable and programmable read only memory, i.e., read/write medium via the memory controller (13, figure 1), wherein the EEPROM is divided into a plurality of memory banks for data storage (col. 3 lines 16-28 and col. 6 lines 23-55), and the memory controller is further manages operation of the EEPROM memory in a way to maximize the lifetime of the memory system by avoiding uneven use of any one part of it (col. 3 lines 3-15). In addition Lofgren teaches the EEPROM memory is further

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calculate the rewrite cycle of the each bank wherein the EEPROM memory is divided into most heavily used bank, i.e., dynamic region, and least used bank, i.e., static region, by the result of the calculation of the rewrite/erase cycle, and data is transferred between the most heavily used and least used banks in the way of swapping the data in between of these banks (col. 4 line 46 through col. 5 line 31 and figure 5). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the storage system of Muthuswamy in having a processor-executable file system adapted to migrate the file to a dynamic region of the read/write storage medium, and migrating the file to a static region of the read/write storage medium, as per teaching by the storage system of Lofgren, because it allows for extending overall memory system lifetime without having to provide any replacement groups of the memory cells which maximize the lifetime of the memory system by avoiding uneven use of any one part of the memory system.

Regarding claim 18, the limitations of the claim are rejected as the same reasons set forth in claim 2.

Regarding claim 19, the limitations of the claim are rejected as the same reasons set forth in claim 3.

Regarding claim 28, the limitations of the claim are rejected as the same reasons set forth in claim 16.

Regarding claim 29, the limitations of the claim are rejected as the same reasons set forth in claim 15.

Regarding claim 30, the limitations of the claim are rejected as the same reasons set forth in claim 2.

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Regarding claim 31, the limitations of the claim are rejected as the same reasons set forth

in claim 15.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Zhuo H. Li whose telephone number is 571-272-4183. The

examiner can normally be reached on Mon - Fri 10:00am - 6:30pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Sanjiv Shah can be reached on 571-272-4098. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Zhuo H. Li

Patent Examiner

2/1/2008

SUPERVISORY PATENT EXAMINER **TECHNOLOGY CENTER 2100**